

## DESCRIPTION OF THE INVENTION

In a preferred mode, the invention provides a continuous process for the production of 1,1,1,3-tetrachloropropane, in which carbon tetrachloride and ethene are reacted in the presence of a catalyst mixture comprising metallic iron, dissolved iron(II) and iron(III) components, and an organophosphate co-catalyst, tributylphosphate or tripropylphosphate or triisobutylphosphate under conditions effective to produce 1,1,1,3-tetrachloropropane, and then the product mixture is distilled to produce an overhead fraction enriched in 1,1,1,3-tetrachloropropane and a bottom fraction containing most of the catalyst components and high-boiling byproducts of the reaction, and then part of the bottom fraction is recycled to the reactor.